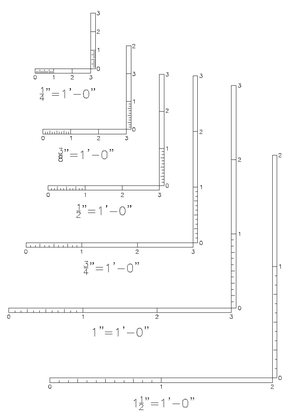
THOMAS JEFFERSON

GENERAL NOTES

1. SEE REF 1 FOR STRUCTURAL DETAILS AND ADDITIONAL NOTES.
2. SEE REF 4 FOR LIST OF NAVIGATION LIGHTS AND MODEL NUMBERS
3. SEE REFS 6, 7, 8, 15 & 16 FOR ADDITIONAL INFORMATION.
4. NAVIGATION LIGHT SHILDS ARE TO BE PAINTED FLAT BLACK.
5. ALL SNIPES TO BE 1" X 45° UNLESS NOTED OTHERWISE.
6. PARTS LIST QUANTITIES REFLECT ITEMS FOR THE NEW ISSUANCE OF THIS DRAWING. FOR ORIGINAL PARTS QUANTITIES, SEE OBSOLETE REFERENCE DRAWINGS.
7. THIS PLAN MUST BE READ CONCURRENTLY WITH REFERENCE 16.
8. ALL WELDING TO BE CONTINUOUS.
9. ALL PIPES TO BE CAPPED AND SEAL WELDED.
10. WHERE CLARITY REQUIRES IT, ITEMS ARE MARKED NEW (N) OR EXISTING (E).



6	MISC DETAILS
5	YARDARM & DRESSING LINES
4	MISC SECTIONS & PLAN VIEWS
3	MISC SECTIONS & PLAN VIEWS
2	ELEVATIONS
1	TITLE SHEET

INDEX – MAIN MAST (170–6634908)

△ PARTS LIST

ITEM NO	QTY	SIZE	DESCRIPTION	MATERIAL	SPEC NO.	PART NO.	REMARKS	UNIT WT LBS
4-P	4	SQ FT	PLATE 10.2# (1/4")	STEEL	A-36			10.2
8-P	2		PLATE 20.4# (1/2")					20.4
3-P			PLATE 7.65# (3/16")					7.65
1		LF	FLATBAR 2" X 3/8"	STEEL	A-36			2.6
2	–		3" X 1/4"					2.6
3	–		5" X 1/4"					4.3
4	–		6" X 5/16"					6.4
5	–	EA	ELBOW, 45°, 1-1/4", L.R. BW		A-234			.4
6	–		90°					.6
7	–	LF	PIPE, 1-1/4" SCH 80		A-53			2.3
8	–		3"					10.3
9	–		4"					15
10	–		6"					28.6
11	–		ANGLE 3" X 2" X 1/4"		A-36			4.1
12	–		5" X 3" X 1/4"					6.6
13	–		SQUARE BAR 3/4"					1.9
14	–	EA	BOLT, HEX HD 1/2-13UNC-2A		COML		1-1/2" LG	
15	–		NUT, SLF LKG 1/2-13UNC-2B					
16	–		WASHER, FLAT 1/2"					
17	–		FLANGE, 4", 125# S.O.; F.F.		A-181			13
18	–		SCUTTLE, 20" FLUSH	GALV	COML	MODEL 20	FREEMAN MARINE, W/STL RING & UNDERSIDE ESCAPE WHEEL	41
19	–	LF	ROUND BAR 3/8" DIA	STL	A-36			.37
20	–	EA	CLEAT 8"	GALV	COML	689921	DONOVAN OR EQ CAT 1989 5/4 PG 389	
21	–		SHACKLE, 1/2" SNAP	SST		3913T54	MCMASTER/CARR OR EQ	
22	–		THIMBLE, 3/8"	GALV		615495	DONOVAN OR EQ CAT 1989 5/12 PG 426	
23	–		3" SINGLE BLOCK			618580	DONOVAN OR EQ CAT 1989 8/12 PG 559	
24	–		SNAP HOOK, QUICK ACTING	SST		3908T4	MCMASTER/CARR OR EQ CAT 95 PG 834	
25	–		RING,1-1/8"ID X 3/16"DIA ROD					
26	–		GRAB RING 3/16" DIA ROD					
27	–	LF	3/8" POLYESTER ROPE	POLY		3789T14	MCMASTER/CARR OR EQ CAT 95 PG 588	
28	–	EA	ROUND BAR 1/2" DIA	STL	A-36			.67
29	–		SWIVEL 3/8" LINK & JAW	GALV	COML	3553T18	MCMASTER/CARR OR EQ CAT 95 PG 516	
30	–		TURNBUCKLE 1/2" JAW & JAW			3001T34	MCMASTER/CARR OR EQ CAT 95 PG 445	
	–							
32	–		SHACKLE, 1/2" ANCHOR	GALV	COML	3558T49	MCMASTER/CARR OR EQ CAT 95 PG 530	
33	–	LF	FLG PL 10" X 3" X 1/4"	STL	A-36			11.03
	–							
35	–	LF	FLG PL 9" X 3" X 1/4"	STL	A-36			10.2
36	–	LF	FLATBAR 8" X 3/16"					8.5
37	–	LF	PIPE, 2" SCH 40	STEEL	A-53			5.02
38	–	EA	COUPLING 1", SCH 80		A-105			
39	8	LF	PIPE, 1-1/4", SCH 40		A-53			2.27
40	–	EA	COPULING, 1-1/4", SCH 80		A-105		THREADED	
41	–	LF	PIPE, 3/4", SCH 40		A-53			1.13
42	–	EA	COUPLING, 3/4", THD		A-105			
43	25	LF	PIPE, 1-1/2", SCH 40		A-53			
44	7	LF	PIPE, 1", SCH 40		A-53			
45	–	LF	PIPE, 5"		A-53			
46	3	LF	PIPE,4", SCH 40		A-53			
47	44	LF	PIPE, 2-1/2" SCH 40		A-53			
48	8	LF	PIPE, 6" SCH 40		A-53			

REVISIONS

REV	SHT	ZONE	ITEM	DESCRIPTION	DATE	APPD
–	ALL	ALL	–	STARTING FROM REF 15, ADDED DETAILS FOR NEW ANTENNA FOUNDATIONS TO SUIT NEW ANTENNA ARRANGEMENT (REF 16). △ SYMBOL REFLECTS CHANGES MADE TO EXISTING STRUCTURE AS ENUMERATED ON THIS PLAN.	12-1-04	WRP

REFERENCES

NO	TITLE	DRAWING NO
1	STRL STDS	101-6634906
2	STRL MOD ADDY NO 15	101-6634874
3	STRL MOD ASSY NO 16	101-6634875
4	NAVIGATION LIGHTING SYSTEM	422-6634697
5	ANTENNA ARRANGEMENT {OBSOLETE-FOR HISTORY ONLY}	405-6634712
6	MASTS, JACKSTAFFS & ENSIGN STAFFS	170-6634883
7	ELEC NAV SYS ELE WRG DIAGRAM	423-6634720
8	WINDSPEED/DIRECTION SYS ELE WRG DIAG	494-6634693
9	BONDING, GROUNDING & METHODS	406-6634696
10	SIGNAL HALYARD & DRESSING LINES	304-3184208
11	LIFELINES, HANDRAILS & STANCHIONS	612-6634889
12	BOAT HANDLING & STOWAGE	583-6634886
13	DOORS, HATCHES, WINDOWS & AIRPORTS	625-6634893
14	MAIN MAST ARRANGEMENT & DETAILS, REV F	170-6634908-F
15	MAIN MAST ARR'GT & DETS STRIPPED FOR RE-RIGGING	TJ-171-001
16	ANTENNA ARRANGEMENT	TJ-171-003

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OFFICE OF MARINE & AVIATION OPERATIONS

Seaworthy Systems, Inc.
P.O. BOX 660
ESSEX, CT 06426
TEL: (860) 767-9061

CONTRACT # 50ABNA000032
TAR-SSI-047(04)

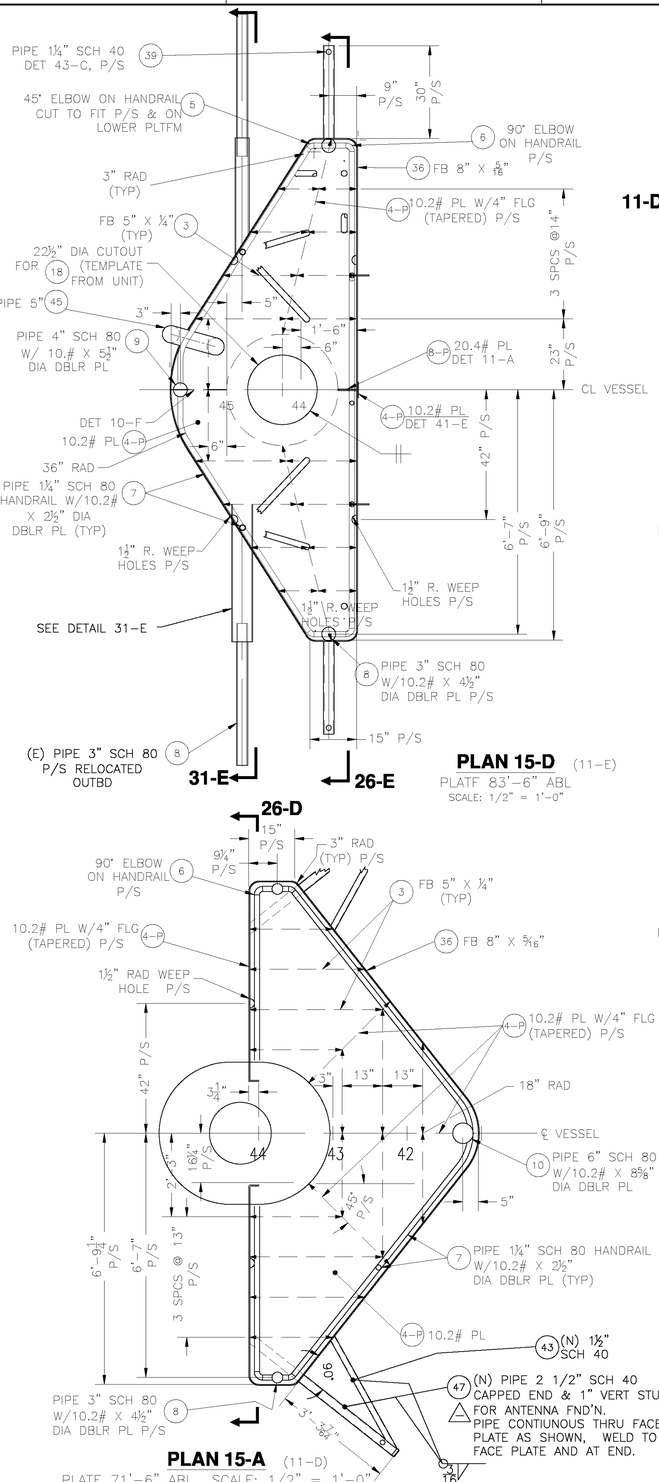
DSGN WRP 12-1-04
DWN WRP 12-1-04
CHK JAH 12-3-04
CHK – -/-/--
– NOAA APPROVAL

NOAA SHIP THOMAS JEFFERSON

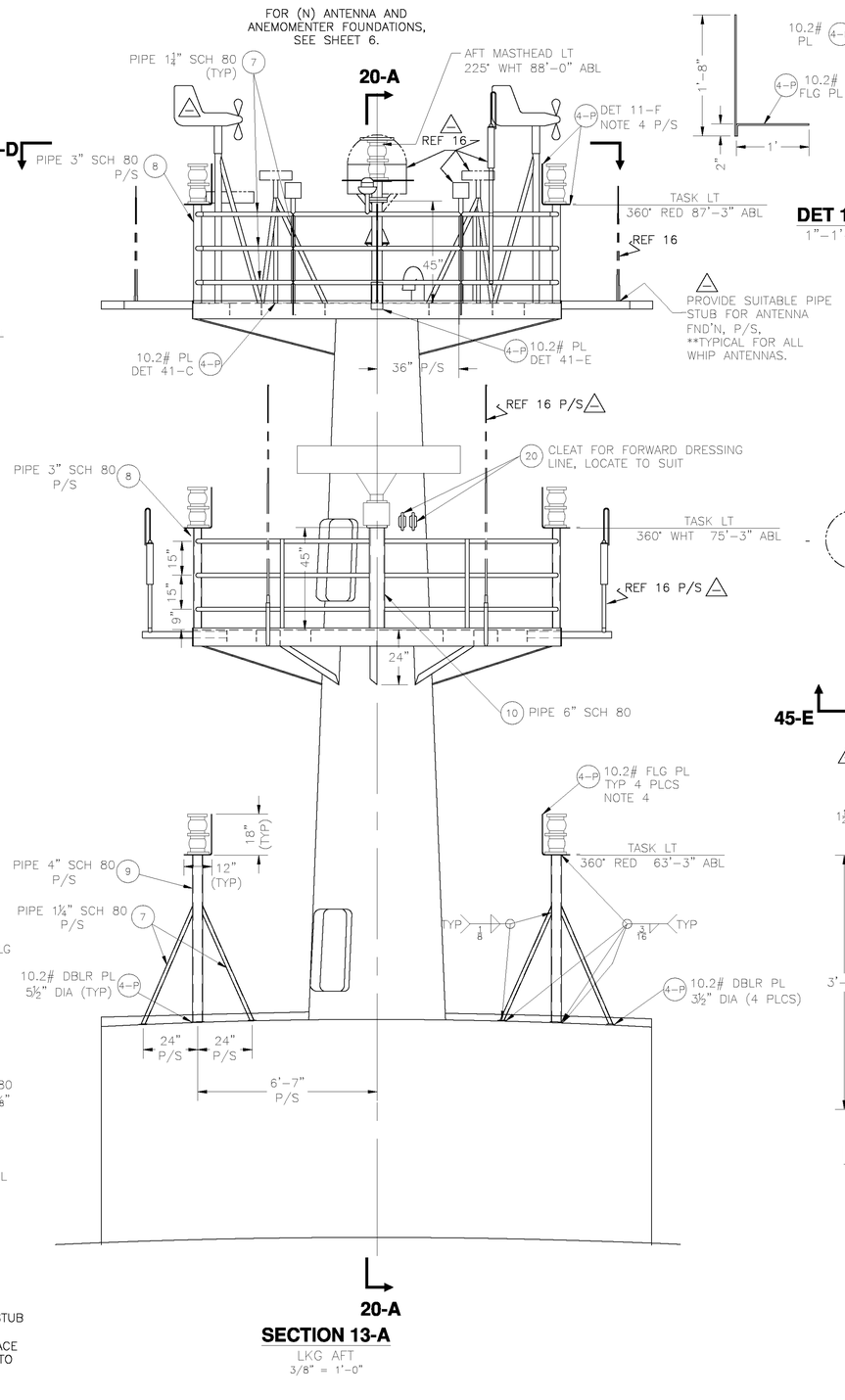
MAIN MAST
ARRANGEMENT & DETAILS

SIZE D | CAGE CODE 0YLJ5 | NOAA DRAWING NUMBER TJ-171-002 | REV –

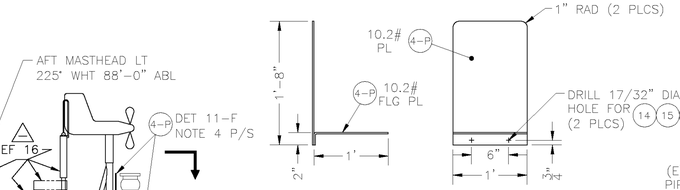
SCALE: AS SHOWN | CAD FILENAME TJ171002.dwg SHT 1 OF 6


PIPE 1¼" SCH 40 DET 43-C, P/S
45° ELBOW ON HANDRAIL CUT TO FIT P/S & ON LOWER PLTFM
90° ELBOW ON HANDRAIL P/S
3" RAD (TYP)
FB 8" X 5/16"
10.2# PL W/4" FLG (TAPERED) P/S
FB 5" X ¼" (TYP)
22½" DIA CUTOUT FOR (18) (TEMPLATE FROM UNIT)
PIPE 5" (45)
PIPE 4" SCH 80 W/ 10.# X 5½" DIA DBLR PL
20.4# PL DET 11-A
DET 10-F 10.2# PL
10.2# PL DET 41-E
36" RAD
PIPE 1¼" SCH 80 HANDRAIL W/10.2# X 2½" DIA DBLR PL (TYP)
1½" R. WEEP HOLES P/S
SEE DETAIL 31-E
PIPE 3" SCH 80 W/10.2# X 4½" DIA DBLR PL P/S
(E) PIPE 3" SCH 80 P/S RELOCATED OUTBD
31-E
26-E
3 SPCS @14" P/S
CL VESSEL
42" P/S
6'-7" P/S
6'-9" P/S
30" P/S
9" P/S
23" P/S
1'-6"
6"
3"
5"
45
44

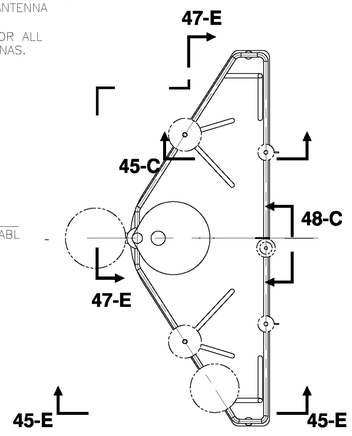
PLAN 15-D (11-E)
PLATF 83'-6" ABL
SCALE: 1/2" = 1'-0"


FOR (N) ANTENNA AND ANEMOMENTER FOUNDATIONS, SEE SHEET 6.
PIPE 1¼" SCH 80 (TYP)
AFT MASTHEAD LT 225° WHT 88'-0" ABL
20-A
11-D
REF 16
DET 11-F NOTE 4 P/S
PIPE 3" SCH 80 P/S
TASK LT 360° RED 87'-3" ABL
REF 16
PROVIDE SUITABLE PIPE STUB FOR ANTENNA FND'N, P/S, **TYPICAL FOR ALL WHIP ANTENNAS.
10.2# PL DET 41-C
10.2# PL DET 41-E
36" P/S
REF 16 P/S
PIPE 3" SCH 80 P/S
20 CLEAT FOR FORWARD DRESSING LINE, LOCATE TO SUIT
TASK LT 360° WHT 75'-3" ABL
REF 16 P/S
24"
10 PIPE 6" SCH 80
10.2# FLG PL TYP 4 PLCS NOTE 4
TASK LT 360° RED 63'-3" ABL
PIPE 4" SCH 80 P/S
PIPE 1¼" SCH 80 P/S
10.2# DBLR PL 5½" DIA (TYP)
10.2# DBLR PL 3½" DIA (4 PLCS)
24" P/S
6'-7" P/S
20-A

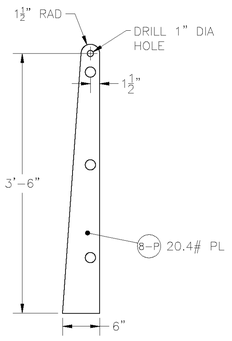
SECTION 13-A
LKG AFT
3/8" = 1'-0"



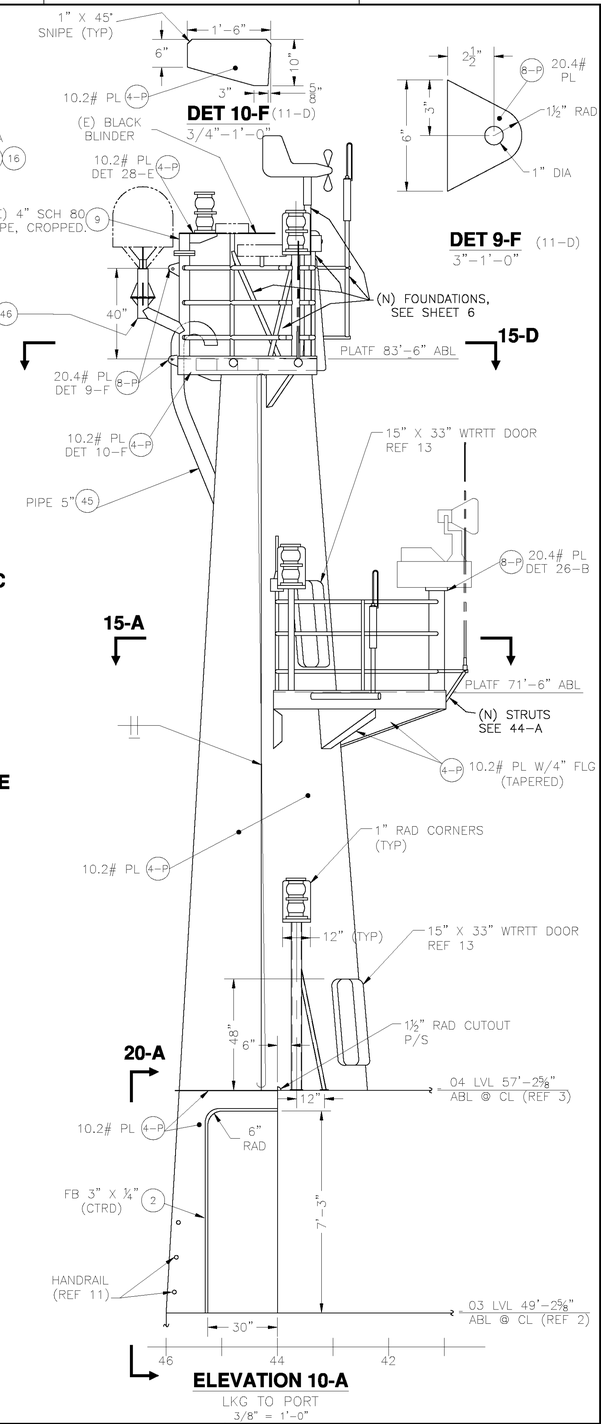
DET 11-F (12-E)
1"-1'-0"



KEY PLAN 11-D
SEE 43-D
3/8" = 1'-0"



DETAIL 11-A (10-E)
1"=1'-0"



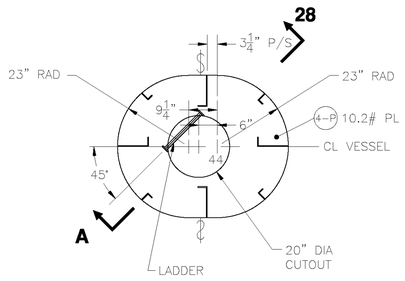
ELEVATION 10-A
LKG TO PORT
3/8" = 1'-0"

26-D
15" P/S
3" RAD (TYP) P/S
9¼" P/S
90° ELBOW ON HANDRAIL P/S
FB 5" X ¼" (TYP)
10.2# PL W/4" FLG (TAPERED) P/S
36 FB 8" X 5/16"
1½" RAD WEEP HOLE P/S
4-P 10.2# PL W/4" FLG (TAPERED) P/S
18" RAD
℄ VESSEL
10 PIPE 6" SCH 80 W/10.2# X 8⅝" DIA DBLR PL
5"
7 PIPE 1¼" SCH 80 HANDRAIL W/10.2# X 2½" DIA DBLR PL (TYP)
4-P 10.2# PL
43 (N) 1½" SCH 40
47 (N) PIPE 2 1/2" SCH 40 CAPPED END & 1" VERT STUB
△ FOR ANTENNA FND'N. PIPE CONTIUNOUS THRU FACE PLATE AS SHOWN, WELD TO FACE PLATE AND AT END.
PIPE 3" SCH 80 W/10.2# X 4½" DIA DBLR PL P/S
8
16
42" P/S
6'-9¼" P/S
6'-7" P/S
3 SPCS @ 13" P/S
16¼" P/S
3" 13" 13"
3"
2"
45° P/S
90°
3'-3⅞"
3"
44
43
42

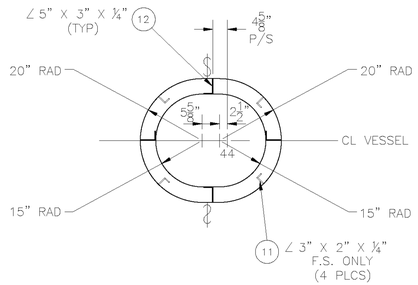
PLAN 15-A (11-D)
PLATF 71'-6" ABL SCALE: 1/2" = 1'-0"

PREPARED BY:
Seaworthy Systems, Inc.
ESSEX, CT 06426
TEL: (860) 767-9061

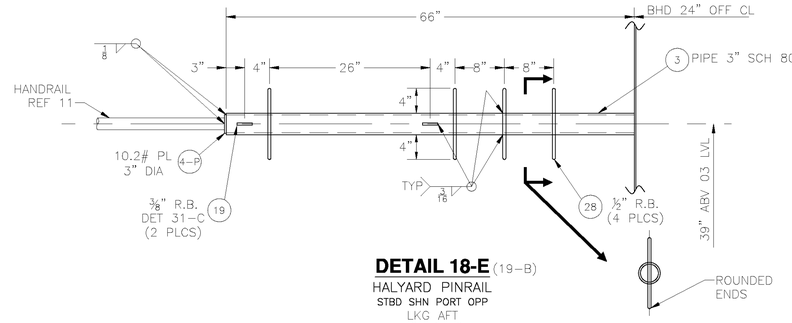
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-171-002	–
SCALE: AS SHOWN	CAD FILENAME TJ-171-002		SHT 2 OF 6



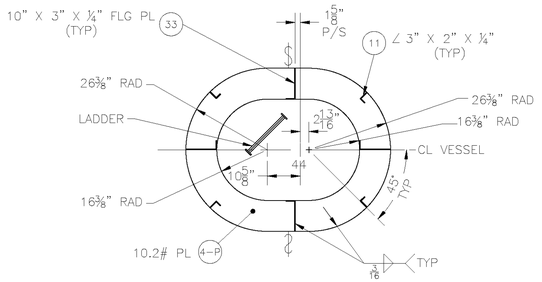
E2 **PLAN 22-E** (17-C)
71'-6" ABL
FOR INFO NOT SHN SEE PLAN 22-C
½"=1'-0"



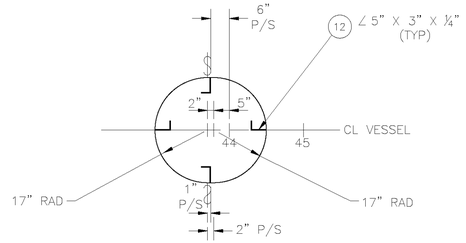
E2 **PLAN 20-E** (17-D)
77'-6" ABL
FOR INFO NOT SHN SEE PLAN 22-C
½"=1'-0"



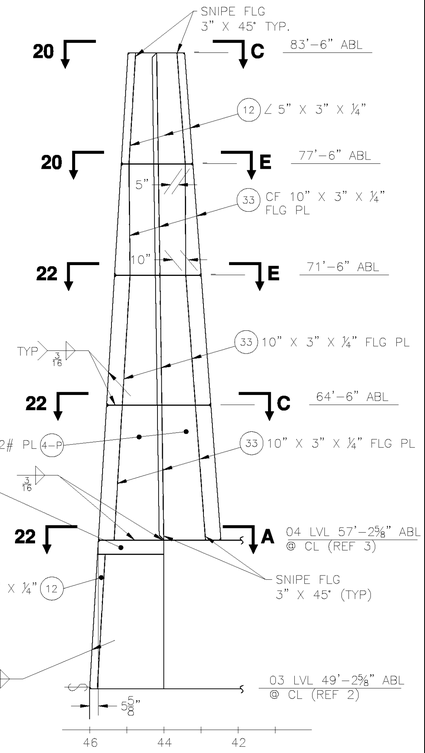
DETAIL 18-E (19-B)
HALYARD PINRAIL
STBD SHN PORT OPP
LKG AFT
1"=1'-0"



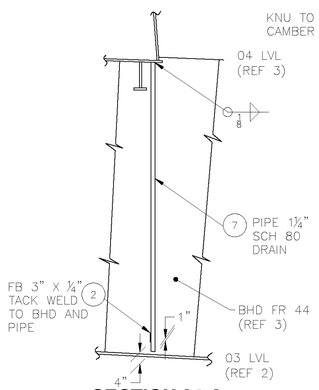
E2 **PLAN 22-C** (17-C)
64'-6" ABL
1/2"=1'-0"



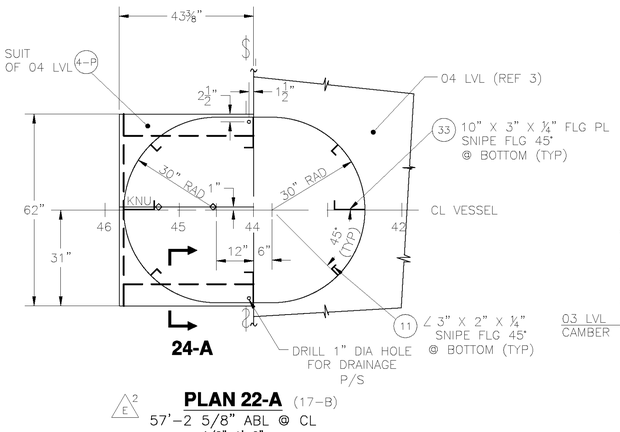
PLAN 20-C (17-D)
83'-6" ABL
1/2"=1'-0"



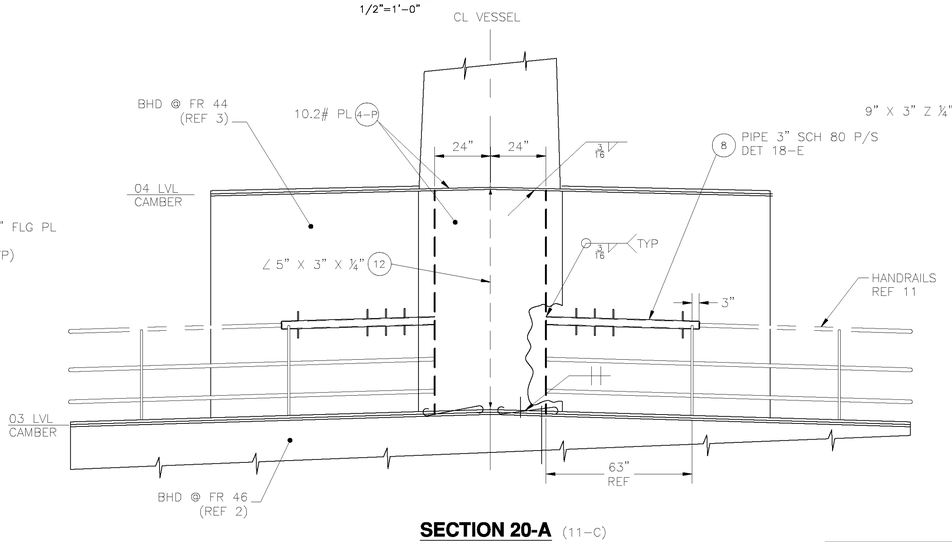
E2 **ELEVATION 18-A** (13-E)
PLATFORMS NOT SHN FOR CLARITY
LKG TO PORT
¼"=1'-0"



SECTION 24-A (22-A)
STBD SHN PORT OPP
LKG FWD
½"=1'-0"



E2 **PLAN 22-A** (17-B)
57'-2 5/8" ABL @ CL
1/2"=1'-0"



SECTION 20-A (11-C)
LKG FWD
3/8"=1'-0"

PREPARED BY:
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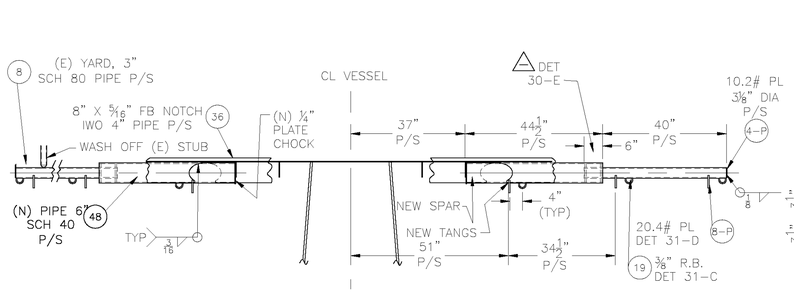
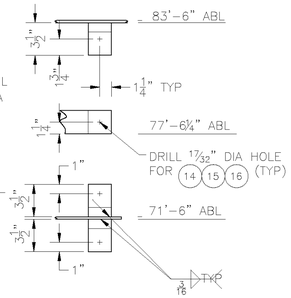
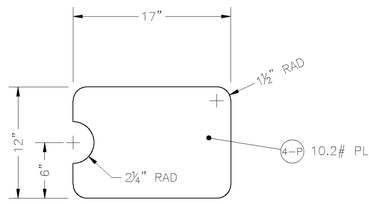
SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	TJ-171-002	–
SCALE: AS SHOWN	CAD FILENAME TJ-171-002	SHT 3 OF 6	



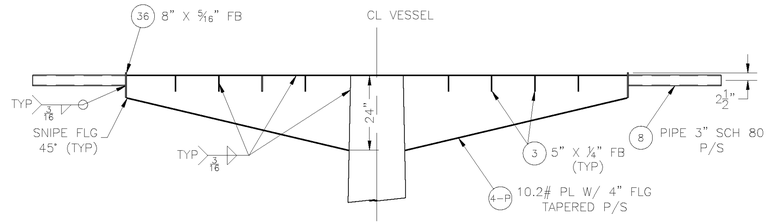
SECTION 31-E (15-F)
SYMMETRICAL ABOUT CL.
1/2"=1'-0"



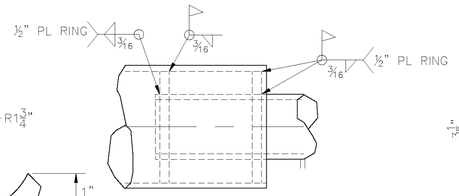
DETAIL 30-D
1 1/2"=1'-0"



DETAIL 28-E (10-E)
1 1/2"=1'-0"

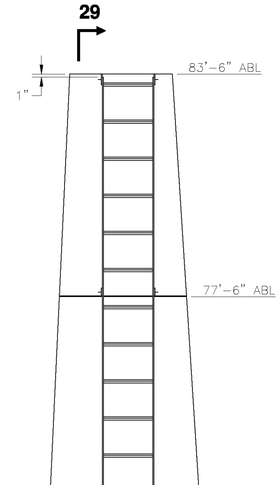


SECTION 26-E (15-F) △1 D
LKG AFT
1/2"=1'-0"

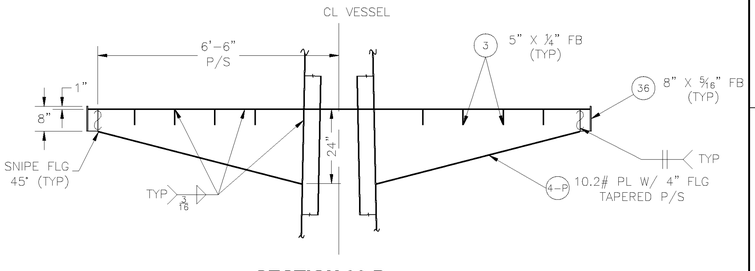


△ DETAIL 30-E (31-E)
1-1/2"=1'-0"

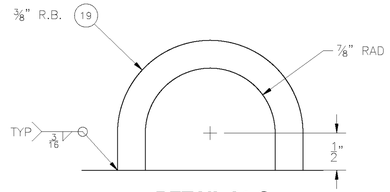
DETAIL 31-D (31-E)
4 REQD
6"=1'-0"



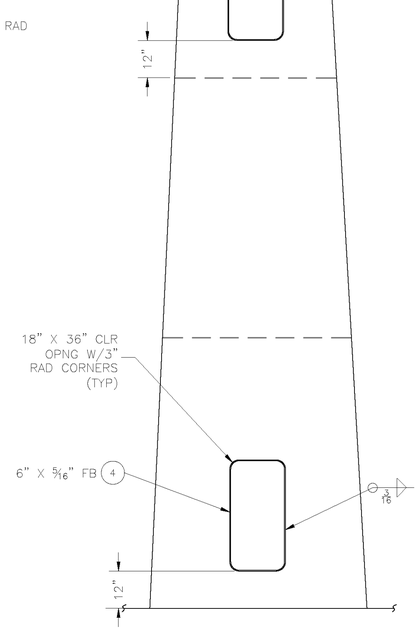
SECTION 28-A
FOR ORIENTATION OF LADDER
SEE PLAN 22-E
½"=1'-0"



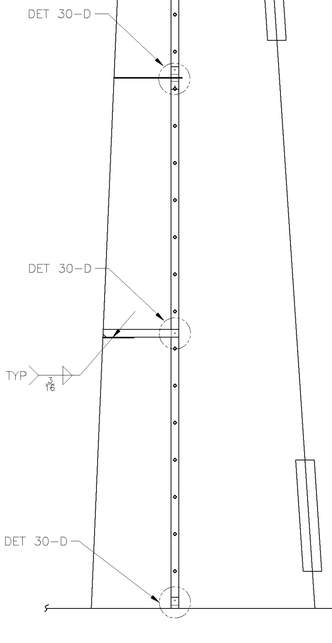
SECTION 26-D (15-C)
LKG AFT
1/2"=1'-0"



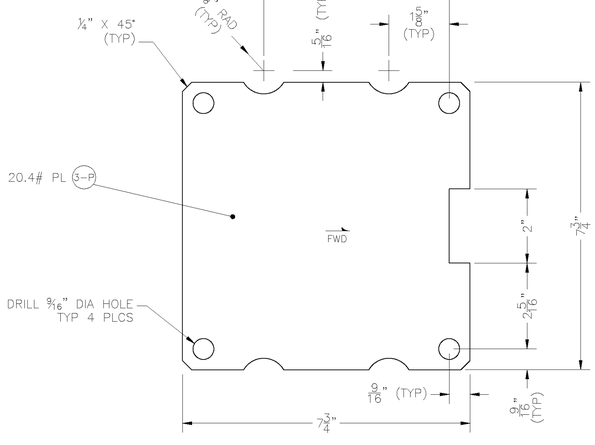
DETAIL 31-C (30-E)
12 REQD
FULL SCALE



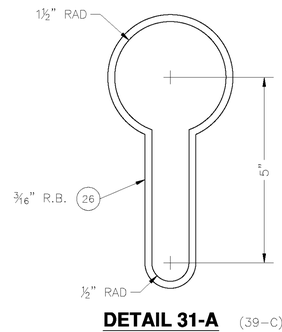
SECTION 30-A
1/2"=1'-0"



ELEVATION 29-A
1/2"=1'-0"



DETAIL 26-B (9-D)
12X RADAR MOUNTING PL
6"=1'-0"



DETAIL 31-A (39-C)
4 REQD
6"=1'-0"

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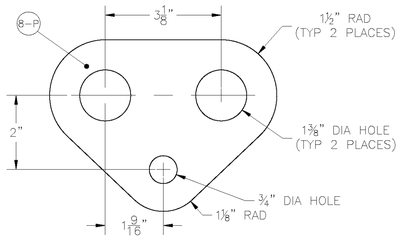
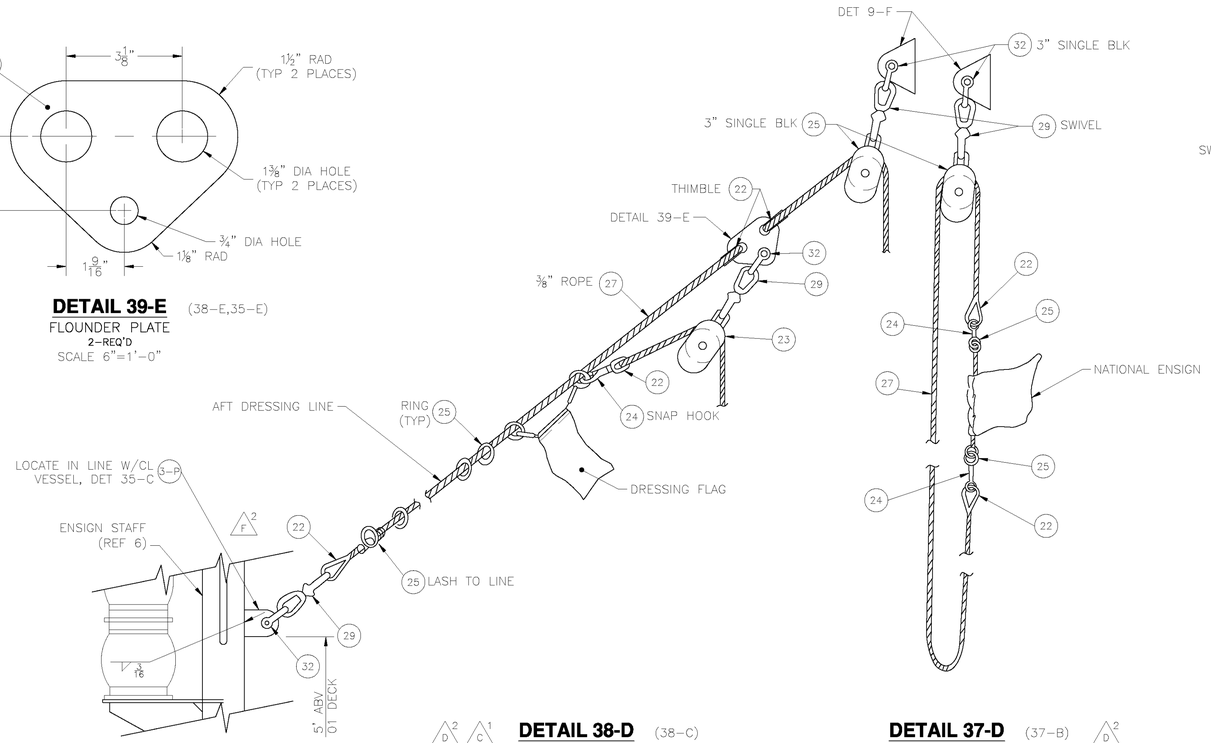
D	0YLJ5	TJ-171-002	–
SCALE: AS SHOWN	CAD FILENAME TJ-171-002	SHT 4 OF 6	

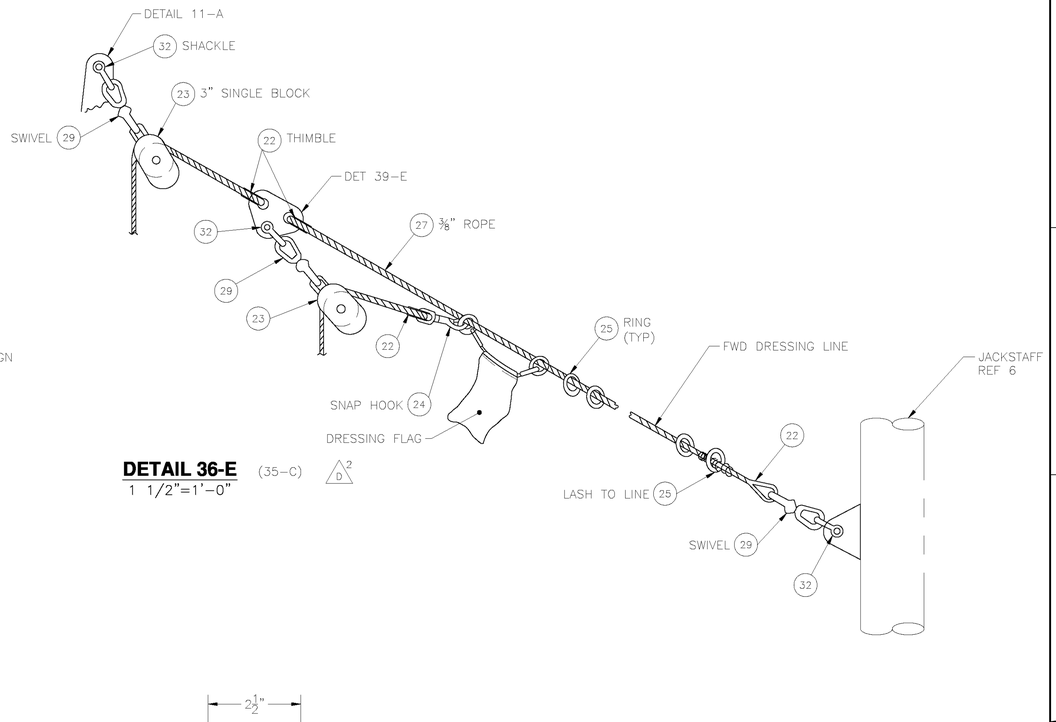


DETAIL 39-E (38-E,35-E)
FLOUNDER PLATE
2-REQ'D
SCALE 6"=1'-0"

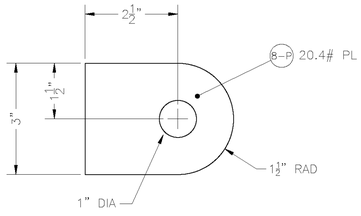


DETAIL 38-D (38-C)
D 2 C 1
1 1/2"=1'-0"

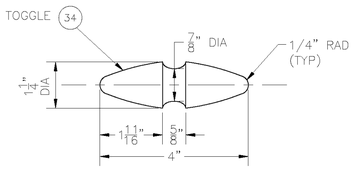
DETAIL 37-D (37-B)
D 2
1 1/2"=1'-0"



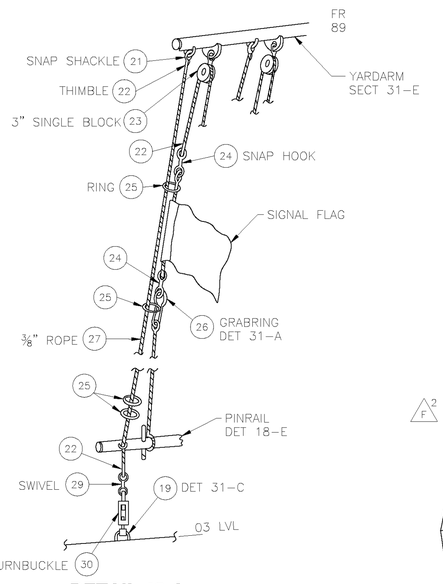
DETAIL 36-E (35-C)
D 2
1 1/2"=1'-0"



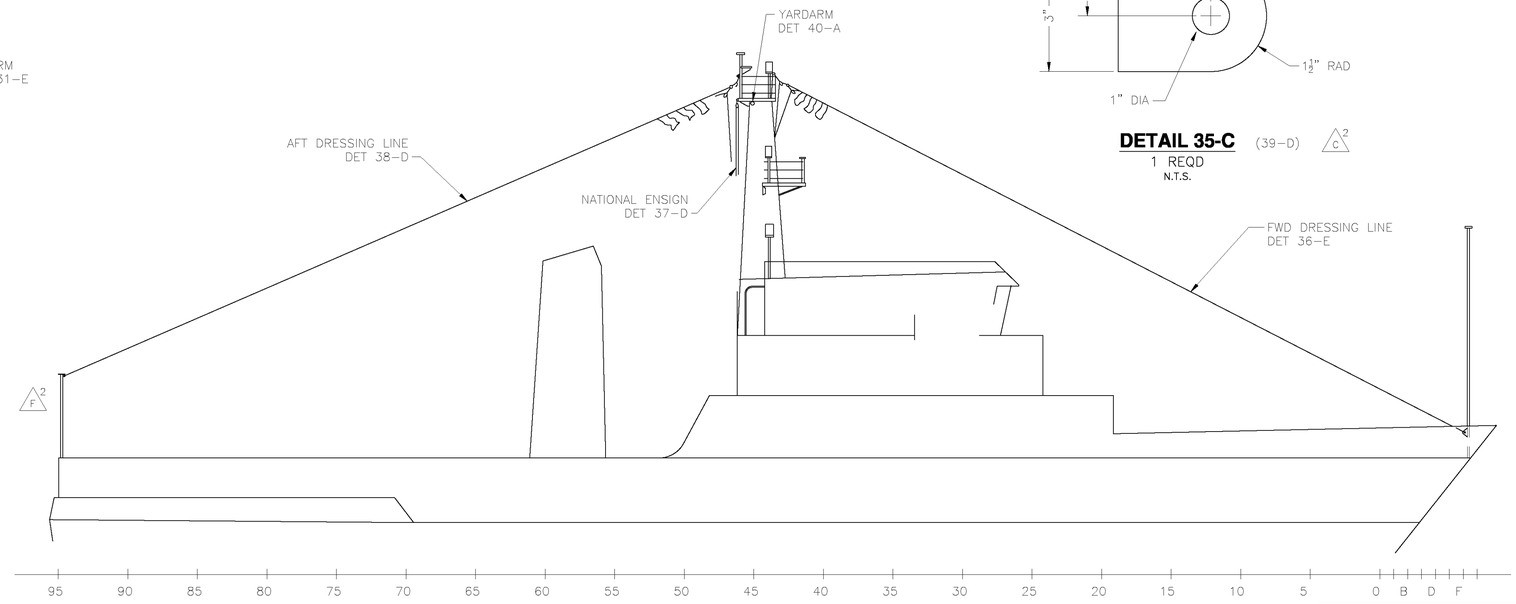
DETAIL 35-C (39-D)
C 2
1 REQD
N.T.S.



DETAIL 33-C (35-E)
5 REQD
N.T.S.



DETAIL 40-A
SIGNAL HALYARD
STBD SHN - PORT SIMILAR
LKG AFT
NTS


YARDARM DET 40-A
AFT DRESSING LINE DET 38-D
NATIONAL ENSIGN DET 37-D
FWD DRESSING LINE DET 36-E
F 2
95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 B D F

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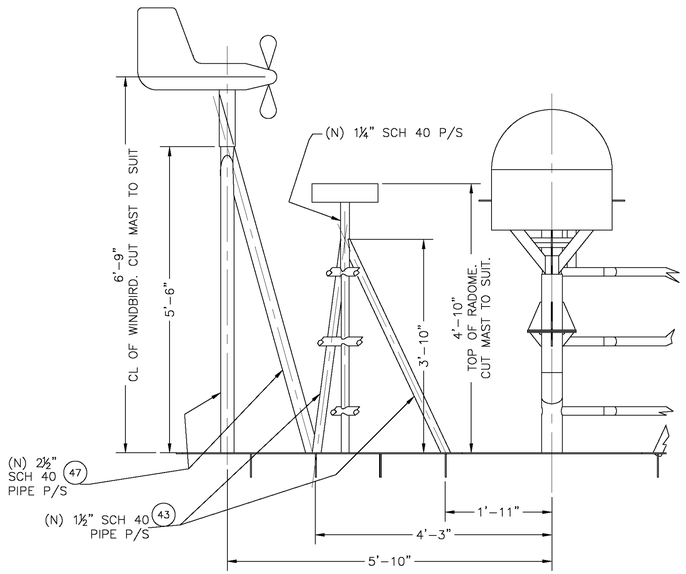
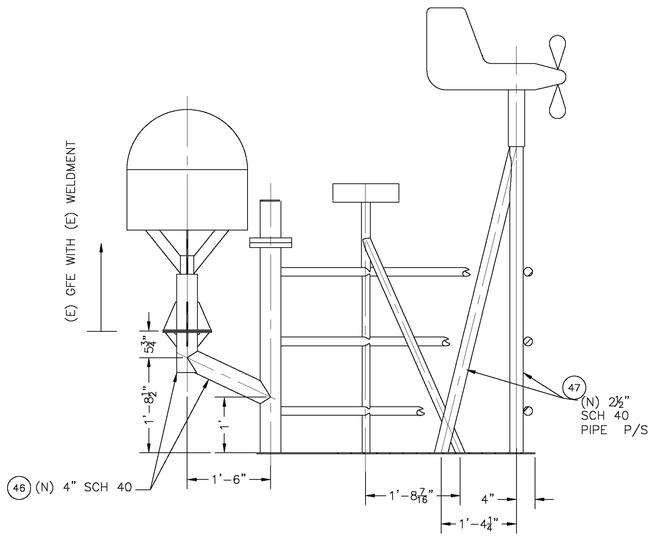
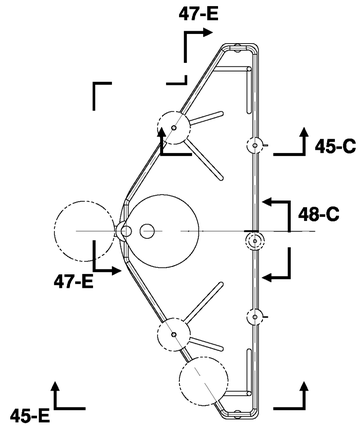

(N) 1¼" SCH 40 P/S
6'-9" CL OF WINDBIRD. CUT MAST TO SUIT
5'-6"
3'-10"
4'-10" TOP OF RADOME. CUT MAST TO SUIT.
(N) 2½" SCH 40 PIPE P/S 47
(N) 1½" SCH 40 PIPE P/S 43
1'-11"
4'-3"
5'-10"

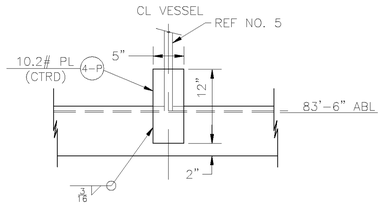
DETAIL 47-E
LKG FWD– (E) RAILINGS REMOVED FOR CLARITY (10–A)
3/4" = 1'-0"



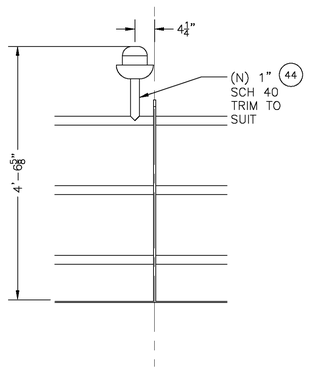
DETAIL 45-E
LKG PORT– (E) RAILINGS REMOVED FOR CLARITY (10–A)
3/4" = 1'-0"



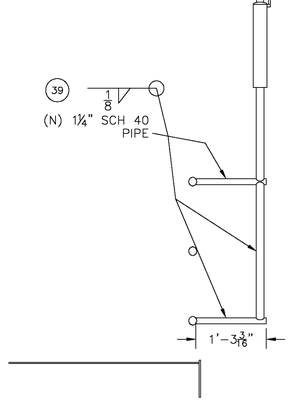
KEY PLAN 43-D
UPPER PLTFM
3/8" = 1'-0"



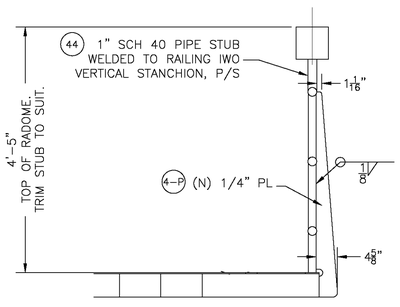
DETAIL 41-E (15–E)



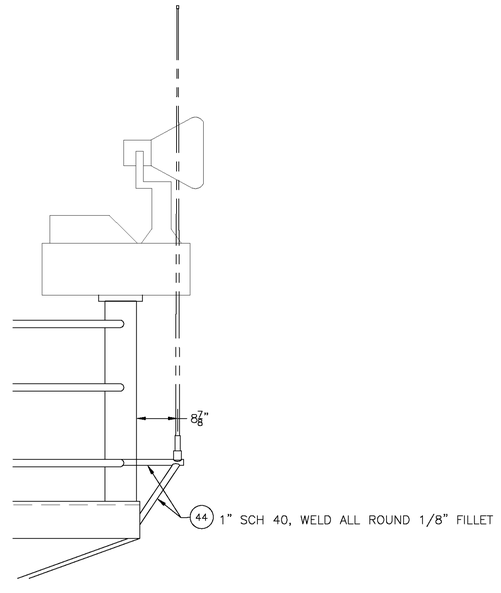
DETAIL 48-C:
LKG AFT TO INMARSAT C
3/4" = 1'-0"



DETAIL 46-C
PORT BUSINESS VHF MAST: LKG PORT
3/4" = 1'-0"



DETAIL 45-C: RIB STIFFENER P/S (10–A)
LKG PORT
3/4" = 1'-0"



DETAIL 44-A (10–A)
CH 70 FNDN, LKG PORT
3/4" = 1'-0"

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